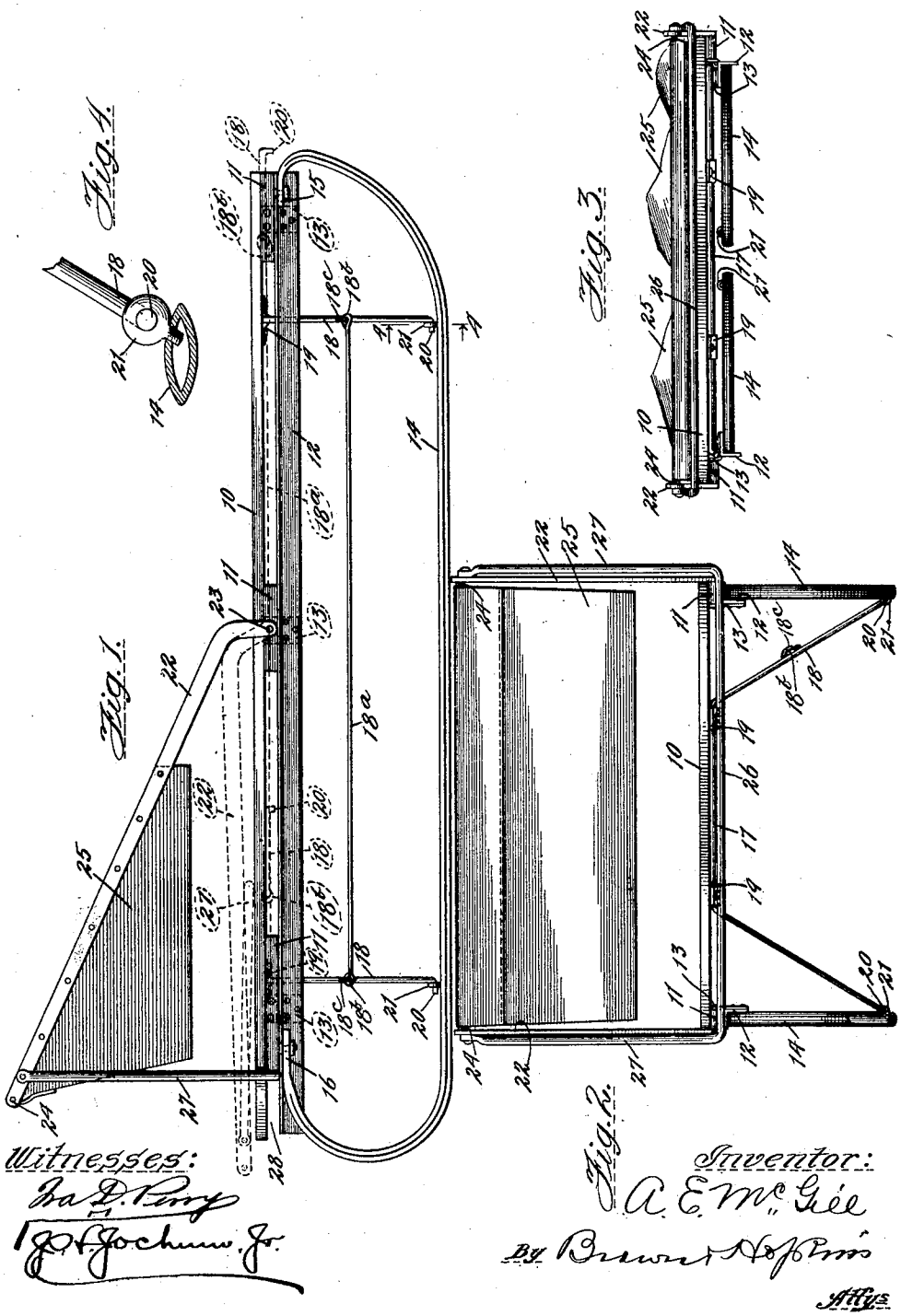
A. E. McGILL.

FOLDING VEHICLE.

APPLICATION FILED APR. 22, 1907.

1,111,662. Patented Sept. 22, 1914.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALBERT E. McGILL, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO WILLIAM S. FERRIS, OF ELKHART, INDIANA, AND ALEXANDER B. LEITH, OF CHICAGO, ILLINOIS.

FOLDING VEHICLE.

1,111,662. Specification of Letters Patent. Patented Sept. 22, 1914.

Application filed April 22, 1907. Serial No. 369,488.

To all whom it may concern:

Be it known that I, ALBERT E. McGILL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Folding Vehicles, of which the following is a specification.

This invention relates to improvements in folding vehicles, and more particularly to folding sleds, and the object of the same is to provide an improved device of this character which may be compactly folded and which will be light, simple and durable in construction and efficient and effective in operation.

To the attainment of these ends and the accomplishment of other new and useful objects as will appear, the invention consists in the features of novelty, in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawing illustrating an exemplification of the invention and in which—

Figure 1 is a side elevation of an improved device of this character constructed in accordance with the principles of this invention; Fig. 2 is a rear elevation of Fig. 1; Fig. 3 is a rear elevation of this improved sled in its folded position; Fig. 4 is a detail sectional view on line 4—4 of Fig. 1.

Referring more particularly to the drawing and in this exemplification of the invention, the numeral 10 designates a supporting member, such as a board or the like, which comprises the body portion of the sled. Secured to the lower face of the supporting member 10 are spacing blocks 11 which are preferably located adjacent the side edges of the member 10. Spaced side bars 12, preferably of angle iron construction, are pivotally supported by the spacing blocks 11 adjacent each side of the supporting member 10 and these members are held in position in any desired or suitable manner, preferably by means of hinges 13, one leaf of which is secured to the spacing block 11 and the other leaf to the side bars 12. Suitable runners 14, preferably of tubular construction and elliptical in cross-section are secured by their extremities 15—16 to the side bars 12 and are of such a height that when folded under the supporting member or body 10, the lower edges of the runners will preferably terminate short of each other as shown more clearly in Fig. 3 of the drawing.

Any suitable means may be provided for holding the runners 14 in an operative position. A simple and efficient means for accomplishing this purpose comprises a brace having a body portion 17 and spaced side arms 18. The brace is preferably pivotally supported by the supporting member or body portion 10 by means of suitable bearings or clips 19, and the extremities of the side arms 18 are deflected laterally as at 20 to form hook shaped portions. Secured to the bottom of the runners 14 are eye bolts 21, and said eye bolts are so located with relation to the side arms 18 of the brace that the hooked extremities on deflected portion 20 will enter the eye of the bolt when the runners are in an operative position to retain the latter in said position. Any suitable number of these braces and eye bolts 21 may be provided and may be located at any point intermediate the extremities of the runners 14.

A suitable seat supporting frame is provided for the sled, and said frame preferably comprises spaced side arms 22, one extremity of each of which is pivotally connected as at 23 to the supporting member or body portion 10 and the other extremities are preferably connected by means of a cross-bar or rod 24. A flexible seat 25 is supported by the side arms 22 and one end of said seat is held in position by means of the cross-bar or rod 24.

A suitable brace or support, preferably of a U shaped construction, having a body portion 26 and spaced side arms 27, is provided for supporting or holding the seat frame in an elevated or inclined position. One extremity of each of the side arms 27 is pivotally connected to one of the side bars 22 of the seat frame, and the body portion 26 thereof is adapted to be placed within a suitable space 28 formed between the rear extremity of the support or body portion 10 and the side bars 12, so that when the supporting brace is in position, the rear end of the seat frame will be held elevated to support the bottom of the seat above the support or body portion 10. When it is desired to collapse or fold the sled from the position shown in Fig. 1 of the drawing, the body portion 26 of the support or brace is removed from the space 28, and the side

arms 22 of the frame moved about their points of pivotal support 23 toward the front of the sled a sufficient distance to permit the body portion 26 of the supporting brace to be passed between the support or body portion 10 and the side arms 22, after which the seat frame is lowered or folded toward the support or body portion 10 and into the position as shown in dotted lines in Fig. 1. The arms 18 of the runner braces are detached from the eye bolts 21 and moved into the position as shown in dotted lines in Fig. 1 of the drawing, after which the runners may be folded on their hinges 13 under or against the lower face of the support or body portion 10, as shown more clearly in Fig. 3 of the drawing.

It is to be understood that the rear extremities of the side bars 12 project for a sufficient distance beyond the rear spacing blocks 11 to form a suitable support for the body portion 26 of the seat supporting brace, and to prevent accidental displacement of the brace when the seat is in its operative position.

Any suitable means may be provided for simultaneously moving the arms 18 into or out of engagement with the eye bolts 21 to lock the runners in an operative position or to permit them to be folded against the supporting member 10. A simple and efficient means for accomplishing this purpose comprises a bar or rod 18^a which has a loose connection with one of the side arms 18 of each of the braces, preferably by means of suitable eyes 18^b formed on the bar or rod, and which engage suitable hooks or projections 18^c on said arms. These hooks or projections are of such a configuration as to hold the rod or bar 18^a in position and against accidental displacement.

In order that the invention might be fully understood by those skilled in the art, the details of the foregoing embodiment thereof have been thus specifically described, but

What I claim as new and desire to secure by Letters Patent is:—

1. A folding sled comprising a body portion, runners for said body, rotatable laterally with respect to the body, braces below the body portion adjacent the forward and rear ends of the runners for holding the latter in an operative position, and a connection between the said braces also located below the body portion for simultaneously moving the braces.

2. A folding sled comprising a body portion, spaced runners for said body rotatable laterally with respect to the body, braces below the body portion adjacent the forward and rear ends of the runners for holding the latter in an operative position, and a connection also below the body portion between the braces for simultaneously moving the braces, said braces, runners, and connection being foldable toward the body portion.

3. A folding sled comprising a body portion, runners for said body rotatable laterally with respect to the body, spaced braces below the body portion for holding the runners in an operative position, and a longitudinal member also below the body portion and disposed between the braces for simultaneously moving the latter into and out of operative position, said member having a loose engagement with the braces, and foldable with the braces and runners toward the body portion.

4. A folding sled comprising a body portion, spaced runners for said body rotatable laterally with respect to the body, braces below the body portion and spaced from each other longitudinally of the body for holding the runners in operative position, and a link also below the body, said link connecting the braces for simultaneously moving the latter, said braces, runners, and connections being foldable toward the body portion.

5. A folding sled comprising a body portion, spaced runners for said body rotatable laterally with respect to the body, braces below the body portion and spaced from each other longitudinally of the body for holding the runners in operative position, and a link also below the body, said link connecting the braces for simultaneously moving the latter, said braces, runners and link being foldable toward the body portion, and with the braces and link between the body and the runners.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 17th day of April A. D. 1907.

ALBERT E. McGILL.

Witnesses:
CHAS. H. SEEM,
J. H. JOCHUM, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."